

# INTEROFFICE MEMORANDUM

Date: January 09, 2006  
 To: Arthur L. Williams, Director  
 From: Arthur Chang, Technical Services Supervisor  
 Re: December 2005 FRM PM<sub>2.5</sub> Monitoring Update Report

This is a report of December 2005 Federal Reference Method PM<sub>2.5</sub> monthly averages, annual averages, 3-year annual design values, and year-to-year comparison data summaries. (These data are subject to further quality assurance and are not final.)

## December 2005

**Table 1. PM<sub>2.5</sub> Monthly Data Summary (µg/m<sup>3</sup>)**

	Daily Maximum	Daily Minimum		Monthly
<u>Site Name</u>	<u>Conc. &amp; Date</u>	<u>Conc. &amp; Date</u>	<u>Run Time</u>	<u>Average</u>
Southwick	26.8 (12/22)	5.7 (12/11)	96.8 %	14.6
Wyandotte	31.9 (12/22)	5.9 (12/11)	96.8 %	15.0
Barret	24.2 (12/06)	8.6 (12/28)	90.0 %	16.8
Watson	23.4 (12/06)	7.0 (12/15)	100.0 %	15.6
<b>Overall</b>				<b>14.8</b>

The 24-hour average standard is 65 µg/m<sup>3</sup>.

**Table 2. PM<sub>2.5</sub> Design Values and Year-to-Date Annual Mean Comparisons**

<u>Site Name</u>	<u>Annual Mean (ug/m<sup>3</sup>)</u>							Annual Design Values (1999-2001)	Annual Design Values (2000-2002)	Annual Design Values (2001-2003)	Annual Design Values (2002-2004)	Annual Design Values (2003-2005)
	2005	2004	2003	2002	2001	2000	1999					
Southwick/ <i>Firearms Trn</i> <sup>1</sup>	16.7	14.6	15.4	17.2	17.1/ 18.7 <sup>1</sup>	17.3	17.5	N/A	N/A	N/A	15.7 <sup>2</sup>	15.6 <sup>2</sup>
Wyandotte	16.6	14.1	15.2	17.5	17.7	16.7	16.9	17.1 <sup>2</sup>	17.3 <sup>2</sup>	16.8 <sup>2</sup>	15.6	15.3
Barret	16.8	14.0	15.2	16.3	16.9	16.7	17.2	16.9	16.6	16.1	15.1	15.3
Watson	16.5	12.7	15.1	15.3	16.3	16.8	15.2	16.1	16.1	15.5	14.3	14.7

The annual average standard is 15.0 µg/m<sup>3</sup>.

<sup>1</sup> *Firearms Training* temporarily replaced Southwick Community Center monitoring during 2001, due to renovation. Twelve quarters of contiguous data are unavailable.

<sup>2</sup> Design value site for Louisville.